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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/653,016		08/28/2003	Matthew Robert Kurano	372584-00201	2098
37509	7590	03/10/2005		EXAMINER	
DECHERT LLP				CHEUNG, WILLIAM K	
P.O. BOX 10004 PALO ALTO, CA 94303				ART UNIT	PAPER NUMBER
11120112	10, 0.1	<i>y</i> . 		1713	
			•	DATE MAILED: 03/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			(1)					
	Application No.	Applicant(s)						
	10/653,016	KURANO ET AL.						
Office Action Summary	Examiner	Art Unit						
	William K Cheung	1713						
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address -	-					
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of this eriod will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ation.					
Status								
1)⊠ Responsive to communication(s) filed on	18 February 2005.							
	This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ⊠ Claim(s) 1-45 is/are pending in the applica 4a) Of the above claim(s) 26-45 is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-25 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	drawn from consideration.							
Application Papers								
9)☐ The specification is objected to by the Exar	miner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.								
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the co	·	` · · •	` '					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	application No received in this National Stage						
Attachment(s)								
1) Notice of References Cited (PTO-892)		Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 112204, 051104 		s)/Mail Date nformal Patent Application (PTO-152) 	T.					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/653,016 Page 2

Art Unit: 1713

DETAILED ACTION

1. Applicant's affirmed election of Group I invention, claims 1-25, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Therefore, in view of lack of traversal to restriction requirement set forth from Response to Restriction Requirement, the restriction set forth by the examiner is deemed proper and is therefore made Final.

Claim Objections

Claims 1-25 are objected to because of the following informalities: Claim 1 (line
 claim 25 (line 6), is the recitation "though" a misspelled? Should it be "through"?
 Appropriate correction is required.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA

Application/Control Number: 10/653,016 Page 3

Art Unit: 1713

1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-25 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-33 of U.S. Patent No. 6,630,265. Although the conflicting claims are not identical, they are not patentably distinct from each other because the invention of claims 1-25 is generically embodied by the invention claims 1-33 of U.S. Patent No. 6,630,265.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 6. Claims 1-9, 12-23, 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Mao et al. (US 6,090,895).

Application/Control Number: 10/653,016

Art Unit: 1713

The invention of claims 1-9, 12-23 relates to a method for improving the physical and mechanical properties of ion-conducting materials, comprising:

providing an ion conducting base material;

providing a crosslinking agent; and

incorporating the crosslinking agent into the ion-conducting base material through hydroxyl and sulfonic acid condensation or through amine and sulfonic acid condensation.

The invention of claim 25 relates to a **method** for **adding funfionality to ion-conducting materials**, comprising

providing an ion conducting based material;

providing a modified crosslinking agent; and

incorporating the modified crosslinking agent into the ion-conducting base material through hydroxyl and sulfonic acid condensation or through amine and sulfonic acid condensation.

Mao et al. (abstract) disclose a method for making crosslinked acidic polymers useful as ion conductive membranes. Further, Mao et al. (col. 8, line 31 to col. 11, line 44) in working examples teach that the conductive membranes comprises crosslinking agents and incorporating the crosslinking agents into the ion-conducting based material through **amine and sulfonic acid condensation**. Claims 1-9, 12-23, 25 are anticipated.

Application/Control Number: 10/653,016 Page 5

Art Unit: 1713

Regarding the recited "modified" in claim 25, the recitation fails to impart any meaningful feature into the claim. Therefore, the recited "modified" is merely a functional language that does not lend itself to patentability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/653,016

Art Unit: 1713

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

March 5, 2005

Page 6